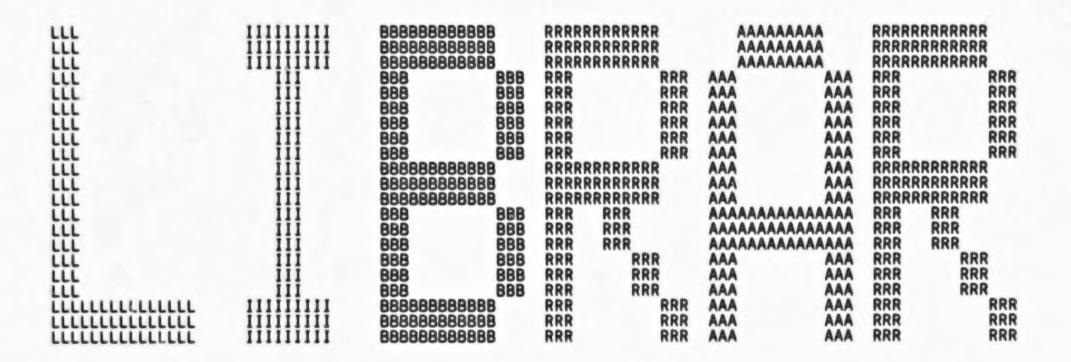
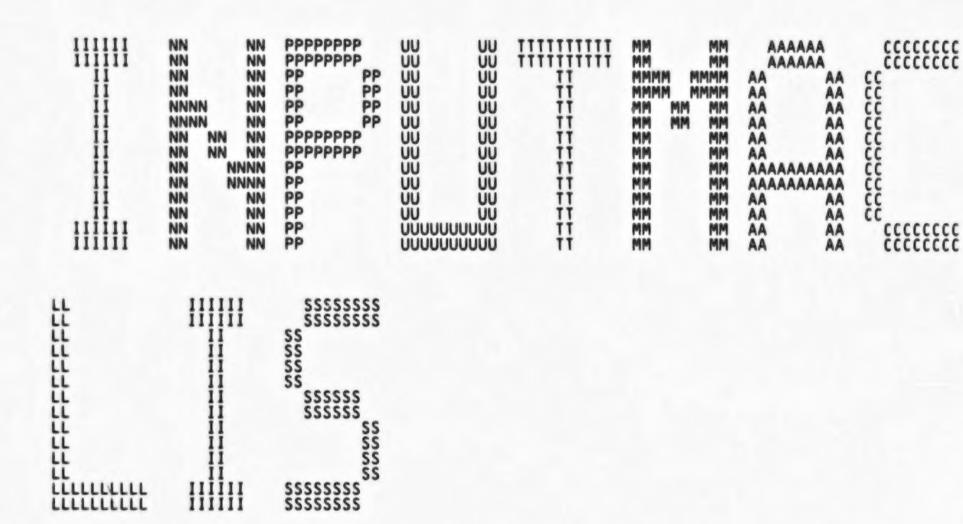
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Val



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Page (1)

VAX-11 Bliss-32 V4.0-742 CLIBRAR.SRCJINPUTMAC.832;1

! Get next macro input line

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The VAX/VMS librarian is invoked by DCL to process the LIBRARY command. It utilizes the librarian procedure set to perform the actual modifications to the library.

CREATION DATE: 22-June-1979

02-Mar-1982 Fix routine scan word to continue processing after a label is encountered, and correct the macro name printing on all the messages that get the macro name from macnamptrtbl.

LII

LIB INPUTMAC				N 8 16-Sep-1984 01:56:41 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:38:04 [LIBRAR.SRC]INPUTMAC.B32:1	Pag
: 58 : 59	0058 0059 0060	11	v02-007	RPG0047 Bob Grosso 7-Aug-1981 lib\$gl_ctlmsk now a quadword	
61	0061 0062	11	v02-006	RPG0046 Bob Grosso 21-Jul-1981 Check macro level in setmacroname.	
62 63 64 65 66 67	0064 0065	11	v02-005	RPG0036 Bob Grosso 25-Jun-1981 Continue inserting macros after an Lbr\$_dupkey error.	
67 68 69	0067 0068	1	V02-004	RPG0035 Bob Grosso 22-Apr-1981 Record module names for library update history	
70	0070 0071	1	v02-003	BLS0029 Benn Schreiber 23-Dec-1980 Convert messages to message compiler	
73 74 75 76	0073 0074 0075 0076		v02-002	Benn Schreiber 28-May-1980 Correct scan_word to not look past end of line.	

LII VO

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9
LIB_INPUTMAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VAX-11 Bliss 2 V4.0-742
[LIBRAR.SRC] NPUTMAC.B32;1
                                                                                                                                                                                                                                                                                                                                                                                          16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page
                        79
80
81
                                                                                                                                              LIBRARY
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00
                                                                                                                                                                                             'SYS$LIBRARY: STARLET.L32';
                                                                                                                                              REQUIRE
                  'PREFIX':
                                                                                                                                              REQUIRE
                                                                                                                                                                                              'LIBDEF':
                                                                                                                                              REQUIRE
                                                                                                                                                                                              'LBRDEF':
                                                                                                                                              EXTERNAL ROUTINE
                                                                                                                                                                   RNAL ROUTINE

get_record.

lib_log_op,

lib_log_upd,

lib_get_zmem,

lib_free_mem,

lbr$delete_key: ADDRESSING_MODE (GENERAL),

lbr$delete_data: ADDRESSING_MODE (GENERAL),

lbr$put_record: ADDRESSING_MODE (GENERAL),

lbr$lookup_key: ADDRESSING_MODE (GENERAL),

lbr$lookup_key: ADDRESSING_MODE (GENERAL),

lbr$insert_key: ADDRESSING_MODE (GENERAL),

lbr$insert_key: ADDRESSING_MODE (GENERAL),

lbr$replace_key: ADDRESSING_MODE (GENERAL);

lbr$put_end: ADDRESSING_MODE (GENERAL);
                                                                                                                                                                                                                                                                                                                                                                                                                                         Read next input record
Log insert operation
Log module names for Library History
                                                                                                                                             EXTERNAL
                                                                                                                                                                    lbr$gl_rmsstv : ADDRESSING_MODE (GENERAL),
lib$gl_ctlmsk : BLOCK [2],
lib$gl_keysize,
lib$gl_libfdb : REF BBLOCK,
lib$gl_inpfdb : REF BBLOCK,
lib$gl_libctl;
                                                                                                                                                                                                                                                                                                                                                                                                                                      !RMS STV from Librarian
                                                                                                                                                                                                                                                                                                                                                                                                                                         !Max length of keys
                                                                                               EXTERNAL LITERAL Libs nomac found.
                                                                                                                                                                                                                                                                                                                                                                                                                                           No macro def found
                                                                                                                                                                                                                                                                                                                                                                                                                                         Nesting level exceeded
No matching .endr
Too many .endr's
Insert error
Delete data error
                                                                                                                                                                          ib$_nestlevel,
                                                                                                                                                                     libs_nestlevel,
libs_nomtchendr,
libs_toomnyendr,
libs_inserterr,
libs_deldaterr,
libs_endwrngmac,
libs_endwrngmac,
libs_inserted,
libs_nomtchendm,
                                                                                                                                                                                                                                                                                                                                                                                                                                         Ends wrong macro
Module replaced
Module inserted
                                                                                                                                                                                                                                                                                                                                                                                                                                         No matching .endm
Macro name length illegal
Duplicate module
                                                                                                                                                                        libs macnaming,
                                                                                                                                                                     lib$_dupmodule,
lib$_dupmod;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Duplicate module
                                                                                                                                              FORWARD ROUTINE
                                                                                                                                                                     setmacroname,
                                                                                                                                                                     checkendmac.
                                                                                                                                                                     scan_line,
                                                                                                                                                                  scan_word,
skip_blanks,
skip_blnk_bkwds,
symbol_char,
elim_trail_blnk,
                                                                                                                                                                     make_upper_case,
                                                                                                                                                                       lookup_keyword;
```

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LIE

```
LIB_INPUTMAC
                                                                                              16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                                 VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]INPUTMAC.B32:1
                                                                                                                                                                                      Page
                                                                                                                                                                                             (3)
                                   GLOBAL ROUTINE lib_input_mac = BEGIN
    This routine reads macro source files, extracts the macro definitions
                                      contained in them, and inserts them into the macro library.
                                   ROUTINE put_record (linedesc, rfa) =
                                   BEGIN
                                     Local routine to call lbr$put_record
                                   IF NOT .dupseen
                                   THEN
                                         rms_perform (lbr$put_record (lib$gl_libctl, .linedesc, .rfa)
lib$_writeerr, .lbr$gl_rmsstv, 1, lib$gl_libfdb [fdb$l_namdesc]);
                    P
                                   RETURN true
                                2
                                   END:
                                                                                                                       LIB INPUTMAC
                                                                                                             . IDENT
                                                                                                             .PSECT
                                                                                                                        $PLIT$, NOWRT, NOEXE, 2
                                                                                       00000 P.AAA:
00008 P.AAB:
00010 P.AAC:
00018 P.AAD:
0001C P.AAE:
00024 P.AAF:
0002C P.AAG:
00034 P.AAH:
0003C P.AAI:
00044 P.AAJ:
                                                                45555544229
                                                                                                            .ASCII
                                                                                                                        \.MACRO\<0><0>
                                                                      44552EE122
                                                                            45229955750
                                                                                                            . ASCI
                                                                                                                        \.REPEAT\<0>
                                                                                                                        \.REPT\<0><0><0>
                                                                                                             .ASCI
                                                                                                                        1.IRP\
                                                                                                            .ASCI
                                                          4302EFE
                                        00 00 00 00
                                              00
00
00
52
54
                                                                                                            .ASCI
                                                                                                                        \.IRPC\<0><0><0>
                                                                                                            .ASCI
                                                                                                                        \.ENDM\<0><0><0>
                                                                                                                        \.ENDR\<0><0><0>
                                                                                                            .ASCI
                                                                                                            .ASCI
                                                                                                                        \.WARN\<0><0><0>
                                                                                                             .ASCI
                                                                                                                        \.ERROR\<0><0>
                                                                                                                        \.PRINT\<0><0>
                                                                                                             .PSECT
                                                                                                                        SOWNS, NOEXE, 2
                                                                                        00000 BUFDESC:.BLKB
00008 TOKENIDESC:
                                                                                        00010 TOKEN2DESC:
                                                                                        00018 CURCHAR: BLKB
0001C DUPSEEN: BLKB
00020 TOKENINDEX:
                                                                                        00024 LINEPTR: BLKB
00028 ENDPTR: BLKB
0002C NESTINGLEVEL:
                                                                                        00030 REPTNESTLEVEL:
                                                                                                             .BLKB
                                                                                        00034 MACRORFA:
```

LIE

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16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                          VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]INPUTMAC.B32:1
                                                                                                                 Page
                                                                                                                        (3)
                                     .BLKB
               0003A MACNAMPTRIBL:
                                     BLKB
               00040 MACRO_NAMES:
00000006
                                     .LONG
               00044 REPEAT_NAME:
000000000
                                     ADDRESS P.AAA
                                    . LONG
00000000
               0004C 00050 REPT_NAME:
                                      ADDRESS P. AAB
                                    .LONG
00000000
               00054
00058 IRP_NAME:
                                     .ADDRESS P.AAC
                                    .LONG
                                     ADDRESS P.AAD
000000000
               0005C | RPC_NAME:
                                     . LONG
               00064 ADDRES:
                                     ADDRESS P.AAE
000000000
                                    .LONG
000000000
               00060
00070 ENDR_NAME:
                                      ADDRESS P. AAF
                                     . LONG
000000000
                                     ADDRESS P.AAG
               00074
               00078 WARN_NAME:
                                    . LONG
000000000
                                     ADDRESS P.AAH
               00080 ERROR_NAME:
                                    .LONG
                                                6
                                     ADDRESS P.AAI
00000000
              00084
00000006
               00088 PRINT_NAME:
                                    . LONG
                                               6
                                     ADDRESS P.AAJ
00000000
              00090 END_OF_LIST:
00000000
                                    .LONG
                                                0
                        TOKEN1LEN=
                                                       TOKEN1DESC
                        TOKEN1PTR=
                                                       TOKEN1DESC+4
                        TOKEN2LEN=
                                                       TOKEN2DESC
                        TOKEN2PTR=
                                                       TOKEN2DESC+4
                        LINELEN=
                                                      BUFDESC
                        LINEADDR=
                                               BUFDESC+4

GET_RECORD, LIB_LOG_OP
LIB_LOG_UPD, LIB_GET_ZMEM
LIB_FREE_MEM, LBR$DECETE_KEY
LBR$DELETE_DATA
LBR$PUT_RECORD, LBR$LOOKUP_KEY
LBR$INSERT_KEY, LBR$REPLACE_KEY
LBR$PUT_END, LBR$GL_RMSSTV
LIB$GL_CTLM$K, LIB$GL_KEYSIZE
LIB$GL_LIBFDB, LIB$GL_INPFDB
LIB$GL_LIBCTL, LIB$_NOMACFOUND
LIB$_NESTLEVEL, LIB$_NOMTCHENDR
LIB$_TOOMNYENDR
LIB$_INSERTERR, LIB$_DELDATERR
LIB$_ENDWRNGMAC
                                                      BUFDESC+4
                                    .EXTRN
                                    .EXTRN
                                     .EXTRN
                                     .EXTRN
                                     .EXTRN
                                     .EXTRN
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                                     EXTRN
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LII

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LIB_INPUTMAC
                                                                                                                                                                                                                                                         16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                                                                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
LLIBRAR.SRCJINPUTMAC.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (3)
                                                                                                                                                                                                                                                                                                EXTRN
EXTRN
EXTRN
                                                                                                                                                                                                                                                                                                                             LIBS_REPLACED, LIBS_INSERTED
LIBS_NOMTCHENDM
LIBS_MACNAMLNG, LIBS_DUPMODULE
                                                                                                                                                                                                                                                                                                .EXTRN
                                                                                                                                                                                                                                                                                                                               LIBS DUPMOD
                                                                                                                                                                                                                                                                                                .PSECT
                                                                                                                                                                                                                                                                                                                             $CODE$, NOWRT, 2
                                                                                                                                                                                                                      0000 00000 PUT_RECORD:
                                                                                                                                                                                                                                                                                                                             Save nothing
DUPSEEN, 1$
LINEDESC, -(SP)
LIB$GL_LIBCTL
#3, LBR$PUT_RECORD
STATUS, 1$
LBR$GL_RMSSTV
STATUS
                                                                                                                                                                                                                                                                                                 . WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1247
1255
1258
                                                                                                                                                                                  0000°
04
00006
                                                                                                                                                       2F
7E
                                                                                                                                                                                                                              58
70
9F
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00007
0000B
                                                                                                                                                                                                                                                                                                BLBS
                                                                                                                                                                                                                                                                                                MOVQ
                                                                                                                                                                                                              AC C 5 3 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0
                                                                                                                                                                                                                                                                                                PUSHAB
                                                                                                                                                                                                                             FB
E8
DD
                                                                                                                                                       00
10
                                                                                                             0000000G
                                                                                                                                                                                                                                                                                                BLBS
                                                                                                                                                                                                                                          ÖÖÖÖF
                                                                                                                                                                                                                                         00016
                                                                                                                                                                                                                                                                                               PUSHL
PUSHL
ADDL3
                                                                                                                                                                   00000000G
                                                                                                                                                                                                                                        00019
                                                                                                                                                                                                                             DD
C1
DD
                                                                                                                                                                                                                                        0001F
                                                                                                                            0000G
                                                                                                 7E
                                                                                                                                                       CF
                                                                                                                                                                                                                                        00021
                                                                                                                                                                                                                                                                                                                               #16, LIB$GL_LIBFDB, -(SP)
                                                                                                                                                                                                              01
8F
05
01
                                                                                                                                                                                                                                        00027
                                                                                                                                                                                                                                                                                                PUSHL
                                                                                                                                                                    008610D2
                                                                                                                                                                                                                              DD
                                                                                                                                                                                                                                        00029
                                                                                                                                                                                                                                                                                                PUSHL
                                                                                                                                                                                                                                                                                                                               #8786130
                                                                                                                                                                                                                                                                                                                              #5. LIB$SIGNAL
#1, RO
                                                                                                                                                                                                                                        0002f
00036 1$:
                                                                                                             00000000G
                                                                                                                                                                                                                                                                                                CALLS
                                                                                                                                                                                                                             DO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1259
                                                                                                                                                                                                                                                                                                MOVL
                                                                                                                                                                                                                                        00039
                                                                                                                                                                                                                                                                                                RET
; Routine Size: 58 bytes,
                                                                                                                    Routine Base: $CODE$ + 0000
                                                              1262
1263
1264
1265
                                                                                             ROUTINE put_end =
                                                                                             BEGIN
          206
207
208
210
211
213
215
216
217
218
                                                                                                    Write end of module record
                                                                                             IF NOT .dupseen
                                                                                                             rms_perform (lbr$put_end (lib$gl_libctl),
                                                                                                                                                           lib$_writeerr, .lbr$gl_rmsstv, 1, lib$gl_libfdb [fdb$l_namdesc]);
                                                                                             RETURN true
                                                                                             END:
                                                                                                                                                                                                                     0000 00000 PUT_END:.WORD
E8 00002 BLBS
9F 00007 PUSHAN
                                                                                                                                                                                                                                                                                                                              Save nothing
                                                                                                                                                                                                                                                                                                                             DUPSEEN, 1$
LIB$GL_LIBCTL
#1, LBR$PUT_END
STATUS, 1$
LBR$GL_RMSSTV
STATUS
                                                                                                                                                       28
                                                                                                                                                                                  0000G
                                                                                                                                                                                                                                                                                                PUSHAB
                                                                                                                                                       00
10
                                                                                                                                                                                                                             FB
E8
DD
                                                                                                                                                                                                                                                                                               BLBS
                                                                                                             0000000G
                                                                                                                                                                                                                                         0000B
                                                                                                                                                                                                              01
50
00
50
10
                                                                                                                                                                                                                                         00012
                                                                                                                                                                                                                                        00015
                                                                                                                                                                   0000000G
                                                                                                                                                                                                                                                                                                PUSHL
                                                                                                                                                                                                                             DD
C1
                                                                                                                                                                                                                                                                                               PUSHL
ADDL3
                                                                                                                                                                                                                                        0001B
                                                                                                                                                                                                                                        0001<u>0</u>
00023
00025
                                                                                                 7E
                                                                                                                            0000G CF
                                                                                                                                                                                                                                                                                                                              #16, LIB$GL_LIBFDB, -(SP)
                                                                                                                                                                                                                              DD
                                                                                                                                                                                                                                                                                                PUSHL
                                                                                                                                                                                                                                                                                                                              #8786130
                                                                                                                                                                   008610D2
                                                                                                                                                                                                                                                                                                PUSHL
```

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```
LIB_INPUTMAC
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
CLIBRAR.SRCJINPUTMAC.B32:1
                                                                                                                                                                                                 Page
                                                                                                                               #5, LIB$SIGNAL
#1, RO
                                           0000000G
                                                                                                                   MOVL
                                                                                                                                                                                                      1275
1276
                                                                                                                   RET
; Routine Size: 54 bytes,
                                              Routine Base: $CODE$ + 003A
    2121234567890123456789
2222222222222333355789
                         1278
1278
1279
1281
1283
1284
1285
1286
1287
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1297
1301
1303
                                        Main body of lib_input_mac
                                    LOCAL
                                           deltxtrfa : BBLOCK [rfa$c_length],
                                            found_one,
                                           status,
                                           replacing,
                                           get_status,
                                           stop_flag;
                                    BIND
                                           libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK,
inpdesc = lib$gl_inpfdb [fdb$l_namdesc] : BBLOCK;
                                     found_one = false;
                                     dupseen = false;
CHSFILL (0, rfaSc_length, macrorfa);
                                        Allocate macro name descriptor table if needed
    IF .macnamptrtbl EQL 0
THEN perform (lib_get_zmem (lbr$c_pagesize, macnamptrtbl));
                                       Loop reading whole input file until end of file
                                    WHILE true
                                                                                                                            !Until eof
                                       Look for ".MACRO"
                                    WHILE ((get_status = get_record (bufdesc)) NEQ rms$_eof) !Until .MACRO found DO BEGIN
                        1310
1311
1313
1314
1315
1316
1316
1318
1318
1322
1323
1323
1326
                                           IF .linelen NEQ 0
AND scan_line ()
AND .tokenindex EQL key_macro
THEN EXITLOOP;
                                                                                                                            !If non-null line !and something interesting ! and it is a .MACRO
                                    IF .get_status EQL rms$_eof
THEN IF .found_one
THEN EXITLOOP
ELSE BEGIN
                                                 SIGNAL (libs_nomacfound, 1, inpdesc);
                                                                                                               !Otherwise done
                                                 RETURN Libs_nomacfound;
                                                 END:
                                     replacing = false;
                                                                                                               !Not replacing yet
!Nesting level initially 1
                                     nestinglevel = 1;
                                     reptnestlevel = 0;
```

LI

4F

64

```
LIB_INPUTMAC
                                                                                  16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.B32;1
   found_one = true;
                                                                                            !.MACRO has been found
                               perform (setmacroname ()):
                                                                                            Save the macro name away
                               put_record (bufdesc, macrorfa);
                                                                                            Write the record
                               stop_flag = false:
                                 Read and write records until the matching .ENDM is seen
                              DO BEGIN
                                    tokenindex = -1:
                                   get_status = get_record (bufdesc);
IF .get_status EQL rms$_eof
THEN EXITLOOP;
                                   IF .linelen NEQ 0
THEN IF scan_line ()
                                                                                                      !non-null line
                                                                                                      and something interesting there
                                    THEN CASE .tokenindex FROM key_macro TO key_print OF
                                        SET
                                   [key_macro] :
                                                   BEGIN
                                                   nestinglevel = .nestinglevel + 1;
IF .nestinglevel GEQU lib%c_maxnest
                                                   THEN
                                                        BEGIN
                                                        BIND
                                                        macro_nam = .macnamptrtbl [dsc$a_pointer];
SIGNAL (lib$_nestlevel, 2, macro_nam, inpdesc);
                                                                                                                          ! locates a counted ASCII string
                                                        EXITLOOP:
                                                        END;
                                                   IF NOT setmacroname ()
                                                   THEN EXITLOOP:
                                                   END:
                                   [key_repeat, key_rept, key_irp, key_irpc] :
    reptnestlevel = .reptnestlevel + 1;
                                   [key_endm] :
                                                   BEGIN
                                                   If .token2len EQL 0
                                                                                                                           !If no macro name
                                                     AND reptnestlevel GTRU 0
                                                                                                                  and still in a repeat
                                                                                                                ! then assume its .endm on a repeat (should
                                                   THEN reptnestlevel = .reptnestlevel -1
   312
313
314
315
316
317
318
321
322
323
323
323
325
                                                        BEGIN
                                                        checkendmac ():
                                                        nestinglevel = .nestinglevel - 1;
                                                   END:
                                   [key_endr] :
                                                   BEGIN
                                                   reptnestlevel = .reptnestlevel - 1;
                    1380
                                   [INRANGE] : true:
                                        TES:
```

LIE

! proceed with normal insertion/replace

!Write end of module record

ELSE

BEGIN

put_end ();

LII

Page 10 (3)

If .curdesc [dsc\$a_pointer] NEQ 0

LIE

LIB_II	NPUTMAC 00								1	(9 5-Sep-19 4-Sep-19	84 01:56 84 12:38	:41 VAX-11 Bliss-32 V4.0-742 1:04 [LiBRAR.SRC]INPUTMAC.B32;1	Page 12 (3)
440		1498	3 1	HEN LIB_	free,	_mem (lbr\$	c_max	key				_pointer]);	
44		1498 1499 1500 1501 1502 1503 1504 1505	2 lib f	ree_mem ((lbr:	\$c_pagesiz	e, .	macn	amptrt	ol);			
447		1504 1505	RETUR 1 END;	N true				!0f	lib_i	nputmac			
							()FFC	00000		.ENTRY	LIB_INPUT_MAC, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10,R1T #8, SP	: 1240
			57 56	0000G 0000G	SE CF CF		08 10 10 5B CF	C2 C1 C1 D4 2C	00002 00005 0000B 00011		SUBL2 ADDL3 ADDL3 CLRL	#8, SP #16, LIB\$GL_LIBFDB, R7 #16, LIB\$GL_INPFDB, R6 FOUND_ONE DUPSEEN	1290 1291 1293 1294 1295
	06		00		. 6E	0000.	OO CF		0001C		CLRL MOVC5	MO, (SP), MO, M6, MACRORFA MACNAMPTRIBL	:
				0000G	7E CF 60	0000	11 CF 8F 02 50 CF	D5 12 9F 3C FB 9F	00023 00025 00029 0002E 00033		TSTL BNEQ PUSHAB MOVZWL CALLS	1\$ MACNAMPTRTBL #512 -(SP)	1299 1300
			0	0000G	CF 59 8F	0000°	01 50 59	9f fB DO	00036 0003A 0003F 00042 00049	1\$:	CALLS BLBC PUSHAB CALLS MOVL CMPL	#2. LIB GET ZMEM STATUS 5\$ BUFDESC #1. GET RECORD RO. GET STATUS GET STATUS GET STATUS, #98938 2\$	1309
				0000v	CF	0000*	14 CF E5 00	85 13 FB	00049 0004B 0004F 00051 00056		BEQL TSTW BEQL CALLS	LINELEN 1\$	1311
					DD	0000°	50 50 57	FB E9 D5 12	00056 00059 0005D 0005F		BLBC TSTL BNEO	#Ö. SCAN_LINE RO. 1S TOKENINDEX 1S	1313
			0	0001827A	8F		59	12	0005F 00066	2\$:	CMPL	GET_STATUS, #98938	1316
					03		02A1 56	51 DD	00068 0006B 0006E	3\$:	BLBC BRW PUSHL	FOUND_ONE, 3\$ 37\$ R6	1317 1320
			0	00000006	00 50	000000006	03	DD DD FB DO 04	00072 00078 0007F		BEQL CALLS BLBC TSTL BNEQ CMPL BNEQ BLBC BRW PUSHL PUSHL PUSHL PUSHL CALLS MOVL RET	#LIB\$ NOMACFOUND #3, LIB\$SIGNAL #LIB\$_NOMACFOUND, RO	1321
				0000v	CF 5B CF 01		5A 01 01 00 50	70 DF E 04 F	0005F 00068 0006B 0006E 00070 00072 0007F 00086 00087 0008E 00091 00096 00099	4\$: 5\$:	CLRL MOVQ MOVL CALLS BLBS	REPLACING #1, NESTINGLEVEL #1, FOUND ONE #0, SETMACRONAME STATUS, 6\$	1324 1325 1327 1328
						0000	CF CF	04 9F 9F	00099 0009A 0009F	6\$:	RET PUSHAB PUSHAB	MACRORFA BUFDESC	1329

VO LI

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LIB_INPUTMAC V04=000			L 9 16-Sep-1984 01:56:41 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:38:04 [LIBRAR.SRCJINPUTMAC.B32;1	Page 13 (3)
	0000G	CF 02 58 01 01 07 07 07 07 07 07 07 07 07 07 07 07 07	FB 000A2 D4 000A7 CE 000A9 75: MNEGL #1, TOKENINDEX PF 000AE FB 000B2 D0 000B7 D1 000BA D1 000BA D1 000BA D2 CALLS #1, GET_RECORD MOVL R0, GET_STATUS D1 000BA D1 000	1331 1336 1337
	0000v	0000° CF 74 CF 000	131W LINELEN	1341 1342
0045 0066	09 0045 0062 00	8f 59 0000° CF 74 CF 00 6C 50 00 000° CF 45 0014 66 0066	FB 000C9 E9 000CE CF 000D1 CASEL TOKENINDEX, #0, #9 000DF 000DF 000DF 12\$-8\$,- 12\$-8\$,- 12\$-8\$,- 12\$-8\$,- 15\$-8\$,- 16\$-8\$,- 16\$-8\$ D6 000EB 9\$: INCL NESTINGLEVEL	1343
		3F 0000° CF	D1 000EF CMPL NESTINGLEVEL, #63	1348 1349
		3F 0000 CF 18 50 0000 CF 56 04 A0 02 00000000 BF 00 CF 24 0000 CF 18	DD 000F6 MOVL MACNAMPTRTBL, R0 DD 000FB PUSHL R6 DD 000FD PUSHL 4(R0) DD 00100 PUSHL #2	1353 1354
	000000006	000000000 8F 04 08	DD 00102 PUSHL #LIB\$ NESTLEVEL FB 00108 CALLS #4, LIB\$SIGNAL 11 0010F BRB 11\$	1353 1357
	0000v	24 50 0000 CF	FB 00111 10\$: CALLS #0, SETMACRONAME E8 00116 BLBS R0, 16\$ 31 00119 11\$: BRW 22\$ D6 0011C 12\$: INCL REPTNESTLEVEL 11 00120 BRB 16\$	1358 1362
			11 00120 BRB 16\$ B5 00122 13\$: TSTW TOKEN2LEN 12 00126 BNEQ 14\$ D5 00128 TSTL REPTNESTLEVEL	1366 1367
	V0000	08	D5 00128 TSTL REPTNESTLEVEL 12 0012C BNEQ 15\$ FB 0012E 14\$: CALLS #0, CHECKENDMAC D7 00133 DECL NESTINGLEVEL 11 00137 BRB 16\$	•
		0000 CF	FB 0012E 14\$: CALLS #0, CHECKENDMAC D7 00133 DECL NESTINGLEVEL 11 00137 BRB 16\$ D7 00139 15\$: DECL REPTNESTLEVEL D5 0013D 16\$: TSTL NESTINGLEVEL 12 00141 BNEQ 18\$	1371 1372 1343 1378 1385
		58 0000° CF	D5 0013D 16\$: TSTL NESTINGLEVEL 12 00141 BNEQ 18\$ D0 00143 MOVL #1, STOP FLAG D0 00146 MOVL REPTNESTEVEL, R1 15 0014B BLEQ 17\$	1388 1389
		50 0000° ČF 56 04 A0 51 03 000000006 8F	12 00141 BNEQ 18\$ D0 00143 MOVL W1, STOP FLAG D0 00146 MOVL REPTNESTCEVEL, R1 15 0014B BLEQ 17\$ D0 0014D MOVL MACNAMPTRTBL, R0 DD 00152 PUSHL R6 DD 00154 PUSHL R1 DD 00157 PUSHL R1 DD 00159 PUSHL W13 DD 0015B PUSHL WLIB\$_NOMTCHENDR	1393 1394
		000000006 8F	DD 00157 PUSHL R1 DD 00159 PUSHL #3 DD 0015B PUSHL #LIB\$_NOMTCHENDR	

V04

						1:	M 9 6-Sep-19 4-Sep-19	984 01:56 984 12:38	:41 VAX-11 Bliss-32 V4.0-742 :04 [LIBRAR.SRC]INPUTMAC.B32;1	Page 1
	0000000G	00		05	FB	00161		CALLS	#5 LIB\$SIGNAL	
		50	0000°	1B 19 CF 56	18 00 00	0016A 0016C 00171	175:	BRB BGEQ MOVL PUSHL	MACNAMPTRIBL, RO	139 140 140
	000000006	00	04 00000000G	A02643	DD DD FB	00173 00176 00178 0017E		PUSHL PUSHL PUSHL CALLS	4(RO) #2 #LIB\$ TOOMNYENDR #4, LIB\$SIGNAL	
1F	0000G	ĊF	0000	03 CF 19	E1 B5 13	00185 0018B 0018F	18\$:	TSTW	#4, LIB\$SIGNAL #3, LIB\$GL_CTLMSK+2, 20\$ LINELEN 20\$	141
		07	0000°	CF O7	D1 1F	00191		BEQL CMPL BLSSU	TOKENINDEX, #7	141
		09	0000	CF OB OO	D1 18	00198 0019D		BLEQU	TOKENINDEX, #9	141
	0000V	CF	0000°	00 CF 10	FB B5 13	0019F 001A4 001A8	198:	CALLS TSTW BEQL	#O, ELIM_TRAIL_BLNK LINELEN 21\$	141
	FDD9	CE	0000	C F	9F	001AA	208:	PUSHAB PUSHAB	MACRORFA BUFDESC	142
	7009	CF 06 03		02 50 58	FB E9 E8 31	001B2 001B7 001BA	21\$:	CALLS BLBC BLBS	#2, PUT_RECORD RO. 22\$ STOP_FLAG, 22\$	142
		52 03	0000	CF 58	51 DO E8 31	001BD 001C0 001C5 001C8	228:	BRW MOVL BLBS	7\$ MACNAMPTRTBL, R2 STOP_FLAG, 23\$ 33\$	143 142
		07	0000	OF A CF CF	31 E9 D4 31	001C8 001CB 001D0 001D4	23\$:	BRW BLBC CLRL	DUPSEEN, 24\$	143 143
	FDEE	CF	(0E9	FB	00107	248:	CALLS	DUPSEEN 32\$ #0. PUT_END 4(R2)	. 44
78	0000G	CF	04	00 A2 05 5E	D6 E1 DD	001DC 001DF 001E5		INCL BBC PUSHL	#5, LIB\$GL_CTLMSK+1, 26\$	144 144 144
	000000006	00 5A	0000G 00000°	CF CF O3 SO	DD 9F FB DO 9F	001E7 001EB 001EF 001F6		PUSHL PUSHAB CALLS MOVL	MACNAMPTRIBL LIBSGL_LIBCTL #3, LBR\$LOOKUP_KEY RO, REPLACING MACRORFA	
			0000° 04 0000° 0000G	CF AE CF CF	9f DD 9f	001E7 001EB 001F6 001F9 001FD 00200 00204 00208 0020F 00212 00218 0021A		PUSHAB PUSHAB PUSHI	DELINING	144
	000000006	00 1D	00000000G	04 50 00 50	FB B D D D D D D D D D D D D D D D D D D	00208 0020f 00212 00218		PUSHAB CALLS BLBS PUSHL PUSHL	MACNAMPTRIBL LIBSGL_LIBCTL #4, LBRSREPLACE_KEY STATUS, 25S LBRSGL_RMSSTV STATUS	
			0000	02 8F	00	00216		PUSHL PUSHL PUSHL	R7 MACNAMPTRTBL #2	
	000000006	00 5E	000000006	8F 06 5A 5E CF	DD FB E9	85200 9225 9225 9225 9225	25\$:	PUSHL CALLS BLBC PUSHL	#LIB\$ INSERTERR #6, LIB\$SIGNAL REPLACING, 27\$	1449
	000000006	00 4E	0000G	02 50	DD 9F FB E8	00220 00222 00228 0022F 00232 00234 00238 0023F		PUSHAB CALLS BLBS	SP LIBSGL LIBCTL #2, LBRSDELETE_DATA STATUS, 27\$	145

LII

						16	-Sep-1984 -Sep-1984	4 01:56	3:04	VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.B32;1	Page 15 (3)
			000000006	00 50 57	DD	00242 00248 0024A	1	PUSHL PUSHL PUSHL PUSHL	STATU R7	L_RMSSTV S	
	000000006	00	000000006	8F 05	DD DD F8	0024C 0024E 00254		PUSHL PUSHL CALLS BRB	#1 #LIB\$ #5, L 27\$	DELDATERR IB\$SIGNAL	1443
	000000006	00	0000G 0000°	CF CF O3	DD 9F	0025B 0025D 00261 00265 00269	26\$:	PUSHAB PUSHAB CALLS	MACRO	RFA MPTRTBL L LIBCTL BR\$INSERT_KEY S, 27\$	1456
		10	000000006	03 50 50 50 57	83 DD DD	00270 00273 00279 00278 00270 00281		BLBS PUSHL PUSHL PUSHL	STATU LBR\$G STATU R7	S, 27\$ L_RMSSTV S	
			0000		DD DD DD DD F8	00270		PUSHL	MACNA	MPTRTBL	
	00000000G	00	0000000G	CF 02 8F 06 CF	יטט	00283 00289	1	PUSHL	#LIB\$	INSERTERR IB\$SIGNAL MPTRTBL	
	00000000	04	0000	5A	DD E9	00290 00294 00297 00299	278:	PUSHL BLBC PUSHL	#3	MPTRTBL CING, 28\$	1460 1459
	0000G	CF	00006	03 02 02 02 CF	DD FB	0029B 0029D 002A2	28\$: [29\$:	BRB PUSHL CALLS PUSHL PUSHL	29\$ #2, L LIB\$G	IB_LOG_UPD L_CIBFDB MPTRTBI	1462
		08	000000006	CF 5A 8F	DD (002A6 AA500 DAS00		BLBC PUSHL	#LIB\$	MPTRTBL CING. 30\$ _REPLACED	1461
	00006	CF	0000000G	8F 06 8F 03	DD (002B3 002B5 002BB	308: F	BRB PUSHL CALLS	#LIBS	INSERTED IB_LOG_OP	
			04	03 A2 3F	D7 (002C0 002C3	325:	BRB	4(R2) 36\$		1464 1426
		50	04 04 0000*	A2 CF 13	DO (002C5 002C9 002CC 002D0	338: I	MOVL INCL TSTL	4(R2) 4(R2)	. RO NGLEVEL	1470 1473 1474
			0081	8F	BB (20202	F	BEQL PUSHR PUSHL	#^M <r< td=""><td>0,R7></td><td>1476</td></r<>	0,R7>	1476
	00000000G	00	00000000	02 8F 04 CF	DD FB	00202 00206 00208 0020E 002E5	F	PUSHL CALLS TSTL	#LIBS	NOMTCHENDM IB\$SIGNAL RFA	1477
	FCDA	CF	0000*	14 00 CF	13 (FB (9F (002E9 002EB 002F0		BEQL CALLS PUSHAB	#0. P	UT END	1480 1481
	000000006	00	0000G 04	02 A2	D5 13 FB 9F 9F FB D6	002E9 002EB 002F0 002F4 002F8	35 \$:	PUSHAB CALLS INCL	L1B\$G #2, L 4(R2)	L LIBCTL BR\$DELETE_DATA	1483
00		6E	00001	0B	20 1	00302	368:	BRB MOVC5	378	SP), #0, #6, MACRORFA	1471
			0000° F	D27	31	00309 0030C 0030F	378: (BRW	15		1304 1492
		50	0000 0	A0 00	31 04 7E 05	00311 00317 0031A	1	MOVAQ TSTL BEQL	amach 4(RO) 39\$	AMPTRTBL[1], RO	1495

LIB INPUTMAC						9 10 16-Sep 14-Sep	1984 91:56	:41	VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRCJINPUTMAC.B32;1	Page 16 (3)
	00006	7E CF 3F	04 81	40 80 80 80 80 80 80 80 80 80 80 80 80 80	DD 9A FB D6	0031C 0031F 00323 00328 398:	PUSHL MOVZBL CALLS INCL	1	-(SP) IB_FREE_MEM	1498 1492
	0000G	7E CF	0000'	EZF OF OF	1B DD 5C FB	0032F 0032F 00333 00338	PUSHL MOVZBL CALLS INCL EMPL BLEQU PUSHL MOVZWL CALLS CLRL MOVL RET	388 MACNA #512, #2, L	MPTRTBL -(SP) IB_FREE_MEM MPTRTBL	1501
; Routine Size: 837 bytes,	Routine	50 Base:		01	000	00341 00344	MOVL	#1, R	O CONTRACTOR OF THE PROPERTY O	1502 1504 1505

			0	00C	00000	DO_SCAN_LINE: .WORD	Save R2,R3_	; 1513
0000v	53 CF	0000'	CF 00 50	9E FB	00002	MOVAB	LINEPTR, R3	1518
0000V	A3 CF		63 00 50 37	00 FB B0	0000F 00013	BLBC MOVL CALLS MOVW	RO. 38 LINEPTR, TOKEN1PTR #O. SCAN WORD RO. TOKEN1LEN	1519 1520
00000	52 CF	F4	A3	13 00 FB	0001C 0001E 00022	BEQL MOVL CALLS BLBC	CURCHAR, LASTCHAR #0, SKIP BLANKS	1521 1522 1524
	1F 3A		50 52 07 63	E9 D1 12	00027 0002A 0002D	CMPL BNEQ	RO, 28 LASTCHAR, #58 18	1527
			63	D7	0002F	DECL	LINEPTR	1530

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LIB INPUTMAC					D 10 16-Sep- 14-Sep-	1984 01:56:41 VAX-11 Bliss-32 V4.0-742 1984 12:38:04 [LIBRAR.SRC]INPUTMAC.B32;1	Page 18 (4)
		CB	AF	00	FB 00031 04 00035	CALLS #0, DO_SCAN_LINE RET	: 1531
			3D F4	A3	D1 00036 15:	CMPL CURCHAR, #61 BEQL 3\$	1534
		0000V	A3 CF A3	63 00 50 63 63 63	D1 00036 15: 13 0003A D0 0003C FB 00040 B0 00045 9F 00045 9F 00046 FB 0004F 04 00054	MOVL LINEPTR, TOKENZPTR CALLS #0. SCAN WORD	: 1539 : 1540
		EC	1C E4	A3	9F 00049 21:	MOVW RO. TOKENZLEN PUSHAB MACRO NAMES PUSHAB TOKENTDESC	1541
		V0000	CF		FB 0004F 04 00054	RET #2, LOOKUP_KEYWORD	
				50	04 00055 35: 04 00057	CLRL RO RET	1542
486 487 488 489 490 491 492 493	1545 2 ! 1546 2 line 1547 2 endp 1548 2 toke 1549 2 toke	nllen ≈ 0; n2len ≈ 0; RN do_scan_	eaddr - 1; iddr + .linel	en;	!Of scan_line	!Init moving line pointer	
				0	004 00000 SCAN_	LINE:	1504
	20 A2		52 0000'	01	9E 00002 C3 00007	.WORD Save R2 MOVAB LINEADDR, R2 SUBL3 #1, LINEADDR, LINEPTR MOVZWL LINELEN, R0 ADDL3 RO, LINEADDR, ENDPTR	1506
	24 A2		62 50 62	A2 50	3C 0000C C1 00010 B4 00015 B4 00018	MOVAB LINEADDR, R2 SUBL3 #1, LINEADDR, LINEPTR MOVZWL LINELEN, RO ADDL3 RO, LINEADDR, ENDPTR	1546 1547
		89	04 0C	A2 A2 A2 00	3C 0000C C1 00010 B4 00015 B4 00018 FB 0001B 04 0001F	CLRW TOKENILEN CLRW TOKENZLEN CALLS #0, DO_SCAN_LINE RET	1548 1549 1550 1551

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 040D

LIB_INPUTMAC								1	10 -Sep-	1984 01:56 1984 12:38	3:41	VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.B32:1	Page 19
496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511	1553 1553 1555 1555 1556 1556 1563 1563	BEGIN This by L LOCAL St Startp DO BEG CU IF EN	artptr: tr = .li CH\$DIFF IN rchar = NOT syn D:	returned additional ad	ptr, .lir	nepti nepti inepti	tr t	f the contract the	ord with the contract	nich is po	ointed the end	to currently of the word.	
						()00c	00000	SCAN_	IORD:	Save	p2 p2	. 4884
		50		53 52 63 50	0000	CF 63 01 A3	9E 00 C1 D1	00007	18:	WORD MOVAB MOVL ADDL3 CMPL BLEQ	LINEP LINEP	R2,R3 PTR, R3 PTR, STARTPTR INEPTR, R0 R, R0	1552 1561 1562
		50	0000V	A3 CF E7 63	00	14 63 83 00 50	06 9A FB E3	00016 00018 00020 00023		INCL MOVZBL CALLS BLBS SUBL3	LINEP aline #0, s R0, 1	PTR, CURCHAR YMBOL CHAR	1564 1565
		50		63		52 50	04 03 04 04	00027 00028 0002C	2\$:	RET SUBL3 INCL RET		PTR, LINEPTR, RO	1567 1568

Routine Base: \$CODE\$ + 0420

; Routine Size: 47 bytes,

LIB_INPUTMAC				1	F 10 6-Sep-1984 01:5 4-Sep-1984 12:3	6:41 YAX-11 BLIS 8:04 [LIBRAR.SRC	8-32 V4.0-742 JINPUTMAC.B32;1	Page 20 (6)
514 515 516 517 518 519 521 522 523 524 525 526 527 528 529	1569 1570 1571 1573 1573 1576 1576 1578 1579 1580 1581 1583 1584	WHILE CHADIFF	e skips blanks e if skipped i se if skipped (.endptr, .li	and tabs in to non-blank, no to semi-colon ineptr + 1) GTM	the input line. non-tab characte or end-of-line. Read n I false: I Return		mment not space/tab	
		F4	52 0000° 51 01 50 04 51 A2 50 F4 38 20 09 50		MOVL MOVAB CMPL BLEQ INCL MOVL MOVZBL MOVL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL CMPL BEQL	Save R2 LINEPTR, R2 LINEPTR, R1 1(R1), R0 ENDPTR, R0 2\$ LINEPTR LINEPTR, R1 (R1), CURCHAR CURCHAR, R0 R0, #59 2\$ R0, #32 1\$ R0, #9 1\$ #1, R0		1569 1576 1578 1579 1580 1581 1584

LI

; Routine Size: 55 bytes, Routine Base: \$CODE\$ + 0450

LIE	B 1 NF	PUTMA	C												1	G 10 6-Sep-19 4-Sep-19	84 01:56 84 12:38	0:41 VAX-11 Bliss-32 V4.0-742 Pag 3:04 [LIBRAR.SRC]INPUTMAC.B32;1	ge 21
	53125535 5334 5335 5336 5338 5341 5341 5344 5344			158 158 158 159 159 159 159 159	2	BEG	his n a syn CHSF N RE	mboli	ine ol,	retuand	tals	[68] FGHI	INI JKLM	TIAL NOPQ boli	har is RSTUVW	a chara	cter tha	!68 to pad to full word nopgrstuvwxyz0123456789.\$_');	
																	.PSECT	SOWNS, NOEXE, 2	
F 4	4E 63	4D 62	4C 61	4B 5A	4A	49	48	47	46	45	44	43	42	41		SYMBOLI	CS: .ASCII	\ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmn\	
2	31	30 00	7A 00	79 00	59 6E 78 5F	58 60 77 24	57 60 76 2E	56 68 75 39	55 6A 74 38	54 69 73 37	53 68 72 36	52 67 71 35	51 66 70 34	50 65 6F 33	000A3 000B2 000BC 000CB		.ASCII	\opgrstuvwxyz0123456789.\$_\<0><0>	
																	.PSECT	\$CODE\$,NOWRT,2	
				0	0000	CF		004	1	8F 50	0	0000	CF 02 51 51 03 50		00002 0000C 0000E 00010 00012 00014 00016	SYMBOL_ 18: 28:	CHAR: WORD LOCC BNEQ CLRL TSTL BNEQ CLRL RET MOVL RET	Save nothing CURCHAR, #65, SYMBOLICS 1\$ R1 R1 2\$ R0	1585 1595 1597

```
LIB_INPUTMAC
                                                                         16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                     VAX-11 Bliss-32 V4.0-742
ELIBRAR.SRCJINPUTMAC.B32;1
                   1599
                           ROUTINE lookup_keyword (tokendesc, tableaddr) =
   BEGIN
                              This routine looks up the token described by tokenptr and tokenlen
                              in the vector of string descriptors pointed to by tableaddr.
                             Returns true with tokenindex set up if found, false if not.
                           MAP
                                tokendesc : REF BBLOCK, tableaddr : REF BBLOCK;
                           LOCAL
                                upcasename : VECTOR [lbr$c_pagesize,BYTE],
                           IF .tokendesc [dsc$w_length] EQL 0 THEN RETURN false:
                           make_upper_case (.tokendesc, upcasename);
i = 0;
                                                                                            !upper case the name
                           WHILE .tableaddr [.i * dsc$c_s_bln,0,16,0] NEQ 0
                           DO BEGIN
                                BIND
                                    curdesc = tableaddr [.i * dsc$c_s_bln,0,0,0] : BBLOCK [dsc$c_s_bln];
                                THEN BEGIN
                                         tokenindex = .i;
                                         RETURN true;
                                         END
                                    ELSE i = .i + 1:
                                END;
                           RETURN false
                                                                                   !Not found
                           END:
                                                                !Of Lookup_keyword
                                                               003C 00000 LOOKUP_KEYWORD:
                                                                                              Save R2,R3,R4,R5
-512(SP), SP
TOKENDESC, R5
                                                                                                                                                   1599
                                                                                     . WORD
                                                                    00002
00007
0000B
0000D
0000F
00013
                                            5E
55
                                                    FE00
04
                                                                                     MOVAB
                                                             CEAS 28 0 54
                                                                 DO B5
                                                                                     MOVL
                                                                                                                                                   1615
                                                                                     TSTW
                                                                                              (R5)
                                                                                     BEQL
                                                     4020
                                                                 BB
FB
                                                                                              #^M<R5,SP>
                                                                                     PUSHR
                                                                                                                                                   1616
                                    0000V
                                                                                     CALLS
                                                                                              #2, MAKE_UPPER_CASE
                                                                 04
7E
                                                                                                                                                   1617
1618
                                                                                     CLRL
                                             50
                                                       08 BC44
                                                                     0001A 18:
                                                                                     PAVOM
                                                                                              atableaddR[1], RO
                                                                    0001F
                                                                 B5
                                                                                     TSTW
                                                             60
                                                                                              (RO)
                                                                                     BEQL
CMPC5
                                                             16
65
80
95
40
1
                                                                 20
            60
                            00
                                                                                              (R5), UPCASENAME, #0, (R0), 24(R0)
                                                                                                                                                   1623
                                            6E
                                                       04
                                                                                     BNEQ
MOVL
MOVL
RET
                                                                                              I TOKENINDEX
                                     0000
                                             CF
50
                                                                                                                                                   1626
1627
```

LI VO

1 10 16-Sep-1984 01:56:41 14-Sep-1984 12:38:04 LIB_INPUTMAC VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.832;1 Page 23 (8) D6 00035 28: 11 00037 D4 00039 38: 04 0003B INCL BRB CLRL RET 1629 1618 1632 54 E1 50 1 1 8 0

; Routine Size: 60 bytes, Routine Base: \$CODE\$ + 04AE VC

```
J 10
16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
LIB_INPUTMAC
V04=000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.B32;1
                                                                                                                                                                                                                              (9)
                           ROUTINE make_upper_case (idesc, oname) =
     BEGIN
                                            This routine upper cases iname.
                                         MAP
                                                idesc : REF BBLOCK, oname : REF VECTOR [,BYTE];
                                                namlen = idesc [dsc$w_length] : WORD,
iname = idesc [dsc$a_pointer] : REF VECTOR [,BYTE];
                                        If .namlen GTRU 0
THEN INCRU i FROM 0 TO .namlen=1
DO IF .iname [.i] GEQU %ASCII'a' !co
AND .iname [.i] LEQU %ASCII'z'
THEN oname [.i] = .iname [.i] - (%ASCII'a' - %ASCII'A')
ELSE oname [.i] = .iname [.i];
                                                                                                                                         !copy name and convert to upper case
                                         RETURN true
                                        END:
                                                                                              001C 00000 MAKE_UPPER_CASE:
                                                                                                                                            Save R2,R3,R4
#4, IDESC, R3
                                                                                                                                                                                                                            1633
1643
1645
                                                                                                       00002
00007
0000A
                                           53
                                                                                                 C1
B5
13
3C
D7
                                                                                                                               ADDL3
                                                          04
                                                                   AC
                                                                                  04 BC 300 04 BC 54 500 21 08 AC 00 8340 051 06 20 051 50 50
                                                                                                                                             SIDESC
58
                                                                                                                               TSTW
                                                                                                                               BEQL
                                                                                                                                            aldesc, R4
                                                                   54
                                                                                                       00000
                                                                                                                                                                                                                            1646
                                                                                                       00010
                                                                                                                               DECL
                                                                                                 D4
                                                                                                      00012
                                                                                                                               CLRL
                                                                                                                                                                                                                            1649
                                                                                                                               BRB
                                                                   50
51
8F
                                                                                                                                            ONAME I R2
20(R3)[I], R1
                                          52
                                                                                                                               ADDL3
                                                                                                       00016 15:
                                                                                                       0001B
                                                                                                                               MOVZBL
                                                                                                                                                                                                                            1647
                                                                                                                                            R1, #97
2$
R1, #122
2$
#32, R1, (R2)
                                                          61
                                                                                                                               CMPB
                                                                                                      00024
                                                                                                                               BLSSU
                                                          7A
                                                                   8F
                                                                                                                               CMPB
                                                                                                                                                                                                                            1648
                                                                                                     00026
00027
00030
00032
00035
00037
00037
00038
                                                                                                                               BGTRU
                                          62
                                                                   51
                                                                                                                               SUBB3
                                                                                                                                                                                                                            1649
                                                                                                                               BRB
                                                                   62
                                                                                                                               MOVB
                                                                                                                                             R1. (R2)
                                                                                                                                                                                                                            1650
1647
                                                                                                  06
01
18
00
04
                                                                                                                               INCL
                                                                   54
                                                                                                                               CMPL
                                                                                           DA
01
                                                                                                                               BLEQU
                                                                                                                                            #1, RO
                                                                   50
                                                                                                                                                                                                                            1651
1652
                                                                                                                               MOVL
```

0003F

SCODES + 04EA

: Routine Size: 64 bytes.

Routine Base:

RET

LI VO

```
K 10
16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
LIB_INPUTMAC
V04=000
                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
LLIBRAR.SRCJINPUTMAC.B32:1
                                                                                                                                                                                                                                                                                                                  (10)
                                                        ROUTINE elim_trail_blnk = BEGIN
                                      1653
1654
1655
1657
1658
1665
1665
1666
1666
1666
1668
1669
1670
      Eliminate trailing blanks from the line
                                                       lineptr = .endptr - 1;
skip_blnk_bkwds ();
linelen = CH$DIFF (.lineptr, .lineaddr) + 1;
WHILE CH$DIFF (.lineptr, .lineaddr) GEQ 0
DO IF (curchar = CH$RCHAR (.lineptr)) NEQ %ASCII';
THEN lineptr = CH$PLUS (.lineptr, -1)
ELSE BEGIN
                                                                   linelen = CH$DIFF (.lineptr, .lineaddr);
                                                                  EXITLOOP;
END;
                                                        lineptr = .lineaddr + .linelen - 1;
skip_blnk_bkwds ();
linelen = CH$DIFF (.lineptr, .lineaddr) + 1;
                                     1671
1672
1673
                                                         RETURN true
                                                        END:
                                                                                                                                      !Of elim_trail_blnk
                                                                                                                                   0004 00000 ELIM_TRAIL_BLNK:
                                                                                                                                                                                                  Save R2
LINEPTR, R2
#1, ENDPTR, LINEPTR
#0, SKIP_BLNK_BKWDS
LINEADDR, LINEPTR, R0
#1, R0, LINELEN
LINEPTR, R1
R1, LINEADDR
35
                                                                                                                                                                                                                                                                                                                  1653
                                                                                                                                               00002
00007
0000C
                                                                                                              0000'
                                                                                             52
CF
62
51
                                                                                                                                                                                 MOVAB
                                                                                                                              CF10020651616506E72222000201
                                                                                                                                        CB
CB
CA
A
DO
                                                           62
                                                                                                                                                                                                                                                                                                                  1658
1659
                                                                                                                                                                                 SUBL 3
                                                                            0000V
                                                                                                                                                                                 CALLS
                                                                                                                                               00011
                                                                                                                  E0
                                                                                                                                                                                SUBL 3
                                                                                                                                                                                                                                                                                                                   1660
                                              DC
                                                                                                                                                                                 ADDW3
                                                                                                                                             00016
0001B
0001E
00022
00024
00027
0002B
0002E
00030
                                                                                                                                                                                 MOVL
                                                                                                                                                                                                                                                                                                                   1661
                                                                                 E0
                                                                                             AZ
                                                                                                                                        D1
19
                                                                                                                                                                                CMPL
                                                                                                                                                                                BLSS
                                                                                                                                                                                MOVZBL
MOVL
CMPB
                                                                                                                                                                                                   (R1), R0
R0, CURCHAR
R0, #59
2$
                                                                                             50
A2
38
                                                                                                                                                                                                                                                                                                                  1662
                                                                                 F4
                                                                                                                                                                                BEQL
DECL
BRB
SUBW3
                                                                                                                                                                                                    LINEPTR
                                                                                                                                                                                                                                                                                                                  1663
                                                                                                                                              00030
00032
00034
00038
00042
00046
00048
00050
00058
                                                                                                                                                                                                  LINEADDR, R1, LINELEN
LINELEN, R0
LINEADDR, R0
-1(R0), LINEPTR
#0, SKIP BLNK BKWDS
LINEADDR, LINEPTR, R0
#1, R0, LINELEN
#1, R0
                                               DC
                                                           A2
                                                                                                                  EO
DC
EO
FF
                                                                                                                                                                                                                                                                                                                  1665
1669
                                                                                             MOVZWL
ADDL 2
MOVAB
                                                                                                                                                                                CALLS
SUBL3
                                                                            0000V
                                                                                                                                                                                                                                                                                                                  1670
1671
                                                                                                                  E0
                                               DC
                                                                                                                                                                                 ADDW3
                                                                                                                                                                                MOVL
                                                                                                                                                                                                                                                                                                                 1672
1673
                                                                                                                                                                                RET
```

; Routine Size: 89 bytes,

Routine Base: \$CODE\$ + 052A

LI V

LIB_INPUTMAC							L 10 16-Sep- 14-Sep-	1984 01:56 1984 12:38	:41 VAX-11 Bliss-32 V4.0-742 :04 [LIBRAR.SRC]INPUTMAC.B32;1	Page 26
624 625 626 627 628 629 630 631 633 633 634 635	1674 1675 1676 1677 1679 1680 1681 1682 1683 1684	1 ROUTINE skip_ 2 BEGIN 2 This routing 2 WHILE CH\$DIFF 2 DO IF (curchan 0R .c THEN Line ELSE RETU 2 RETURN true 1 END;	e skip	s blanks			O TASCI	1' '		
					(0004 0000	O SKIP	BLNK_BKWDS	:	447
		E0	52 A2	0000°	CF 62 17	D1 0000	7 15:	BLNK BKWDS . WORD MOVAB CMPL	Save R2 LINEPTR, R2 LINEPTR, LINEADDR	1674
		F4	50 A2 20	00	172 550 62 623 623	9A 0000 D0 0000 91 000	1 5	BLSS MOVZBL MOVL CMPB	3\$ aLINEPTR, RO RO, CURCHAR RO, #32 2\$	1680
			09	F4	06 A2	13 000 01 000 12 000	8 A	BEQL CMPL BNEQ	CURCHAR, #9	1681
					62 E3	D7 0007	0 25:	DECL BRB	LINEPTR 15	1682
			50		01	04 000	4 38:	MOVL	#1, R0	168 168

Routine Base: \$CODE\$ + 0583

; Routine Size: 40 bytes,

```
LIB_INPUTMAC
V04=000
                                                                                    16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                    VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]INPUTMAC.B32;1
                                                                                                                                                                         (12)
                               ROUTINE setmacroname =
                     BEGIN
   640
                                  This routine converts the macro name to upper case and saves it for later checking on the .ENDM and for
   entering the macro name into the library.
                               BIND
                                     inpdesc = lib$gl_inpfdb [fdb$l_namdesc] : BBLOCK,
                                     macrodesc = machamptrtbl [(.nestinglevel - 1) * dsc$c_s_bln,0,0,0] : BBLOCK;
                               If .token2len GTRU .lib$gl_keysize
THEN BEGIN
                                     SIGNAL (lib$_macnamlng, 2, token2desc, inpdesc);
                                     RETURN libs_macnaming;
                                     END:
                               IF .macrodesc [dsc$a_pointer] EQL 0
THEN perform (lib_get_zmem (lbr$c_maxkeylen+1, macrodesc [dsc$a_pointer]);
macrodesc [dsc$a_pointer] = .macrodesc [dsc$a_pointer] + 1;
make_upper_case (token2desc, .macrodesc [dsc$a_pointer]);
macrodesc [dsc$w_length] = .token2len;
                               BEGIN
   660
                                     BIND
   661
662
663
                                          namlen = .macrodesc [dsc$a_pointer]-1 : VECTOR [,BYTE]; !Name first byte (length)
                                     namlen [0] = .macrodesc [dsc$w_length];
                                                                                                                                         !Set length into name
   664
                                    END:
   665
   666
667
                                IF .nestinglevel EQL 1
                               THEN
   668
                                    BEGIN
   669
                                    IF NOT .lib$gl_ctlmsk [lib$v_replace] !if not
    AND lbr$lookup_key (lib$gl_libctl, macrodesc, macrorfa)
                                                                                                         !if not replacing
   671
672
673
674
675
676
                                          BEGIN
                                          dupseen = true:
                                          END:
                                     END:
   678
679
                               macrodesc [dsc$a_pointer] = .macrodesc [dsc$a_pointer] - 1;
   680
                               RETURN true
   681
                               END:
```

```
007C 00000 SETMACRONAME:
                                                                                        Save R2,R3,R4,R5,R6
LIB$SIGNAL, R6
#LIB$_MACNAMLNG, R5
                                                                                                                                                                1686
                                                                            . WORD
                         000000006
                                                                            MOVAB
                                                 DÖ
9E
C1
                                                      00009
                                                                            MOVL
                                                                                        TOKENZLEN, R4
#16, LIB$GL INPFDB, R1
NESTINGLEVEL, RO
                                           CF
10
                                0000
                                                      00010
                                                                            BAVOM
51
                     CF
50
                                                      00015
          0000G
                                                                            ADDL3
                                                                                                                                                                1694
                                   10
                                                 DO
                                                      0001B
                                                                            MOVL
                                                                                                                                                                1695
```

LI VC

LIB_INPUTMAC VO4=000					16-Sep-	-1984 01:56: -1984 12:38:		Page 28 (12)
0000G CF	64		53 53 10	20 B440 08 00 06	7E 0001F C2 00024 ED 00027 1B 0002E	MOVAQ SUBLZ CMPZV BLEQU PUSHL PUSHL PUSHL PUSHL CALLS	@MACNAMPTRTBL[RO], R3 #8, R3 #0, #16, TOKEN2LEN, LIB\$GL_KEYSIZE 1\$ R1 R4 #2 R5	1697
				51 54 02	DD 00030 DD 00032 DD 00034 DD 00036	PUSHL PUSHL PUSHL	R1 R4 N2	1699
			66 50	02 55 04 55	FB 00038 D0 0003B	MOVL	#4. LIB\$SIGNAL R5, R0	1700
			52	04 A3 62 0E 52	04 0003E 9E 0003F 18: 05 00043	RET MOVAB TSTL	4(R3), R2 (R2)	1703
		0000G	7E CF 5B	81 8F 02 50	12 00045 DD 00047 9A 00049 FB 0004D	MOVAB TSTL BNEQ PUSHL MOVZBL CALLS	2\$ R2 W129, -(SP) W2, LIB_GET_ZMEM	1704
			58	50 62 62	E9 00052 D6 00055 28:	CALLS BLBC INCL PUSHL	#2, LIB GET_ZMEM STATUS, 4\$ (R2) (R2)	1705 1706
	50	FEDF	CF 63 62 60 01	62 62 54 02 64 01 63	DD 00057 DD 00059 FB 0005B B0 00060 C3 00063 90 00067 D1 0006A	CALLS	R4 W2, MAKE UPPER CASE TOKEN2LEN, (R3) W1, (R2), R0 (R3), (R0) NESTINGLEVEL, #1	1707 1710 1712 1713
	32	0000G	CF	1C A4 38 05 24 A4 53	12 0006E	BBS PUSHAB	3\$ #5, LIB\$GL_CTLMSK+1, 3\$ MACRORFA R3	1718
	0	00000006	00	000G CF	9F 00076 DD 00079 9F 0007B FB 0007F E9 00086 C1 00089	PUSHL PUSHAB CALLS	R3 LIB\$GL_LIBCTL #3, LBR\$LOOKUP_KEY R0, 3\$	
	7E 7E 7E	0000G	1F CF CF 62	50 10 10 01	E9 00086 C1 00089 C1 0008F C3 00095	CALLS BLBC ADDL3 ADDL3 SUBL3	#16, LIB\$GL_LIBFDB, -(SP) #16, LIB\$GL_INPFDB, -(SP) #1, (R2), -(SP)	1723 1722
			66 000000	01 03 0006 8F 05	DD 00099 DD 0009B FB 000A1	PUSHL PUSHL CALLS	WI IBS DUPMODULE WS, LIBSSIGNAL	1723
		OC	A4 50	01 62 01	DO 000A4 D7 000AB 3\$: DO 000AA 04 000AD 4\$:	MOVL DECL MOVL RET	#1, DUPSEEN (R2) #1, R0	1724 1728 1729 1730

; Routine Size: 174 bytes, Routine Base: \$CODE\$ + 05AB

```
LIB_INPUTMAC
                                                                                                      16-Sep-1984 01:56:41
14-Sep-1984 12:38:04
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]INPUTMAC.B32:1
                                                                                                                                                                                                     Page 29 (13)
                                     ROUTINE checkendmac = BEGIN
    This routine checks that the name specified on the .ENDM matches what is expected.
                         1734
1735
1736
1738
1738
1742
1743
1744
1746
1755
1756
1756
1758
1759
                                      BIND
                                            inpdesc = lib$gl_inpfdb [fdb$l_namdesc] : BBLOCK,
macrodesc = macnamptrtbl [(.nestinglevel - 1) * dsc$c_s_bln,0,0,0] : BBLOCK;
                                      LOCAL
                                            endname : VECTOR [lbr$c_maxkeylen,BYTE];
                                      IF .token2len NEQ 0
THEN BEGIN
                                           THEN BEGIN
                                                  macrodesc [dsc$a_pointer] = .macrodesc [dsc$a_pointer] + 1;
SIGNAL (lib$_endwrngmac, 3, token2desc, macrodesc, inpdesc);
macrodesc [dsc$a_pointer] = .macrodesc [dsc$a_pointer] - 1;
                                                  END:
                                            END:
                                      RETURN true
                                     END:
                                                                                       OOFC 00000 CHECKENDMAC:
                                                                                                                                  Save R2,R3,R4,R5,R6,R7
LIB$SIGNAL, R7
                                                                                                                      . WORD
                                                                                                                                                                                                           1731
                                                                                                                      MOVAB
                                                                  00000000G
                                                                                          9EE1076233
                                                                                                                                 TOKENZLEN, R6
-128(SP), SP
#16, LIB$GL_INPFDB, R5
NESTINGLEVEL, R0
amacnamptrtbl[R0], R4
                                                                         0000
                                                                                               00009
                                                                                                                      MOVAB
                                                                                               0000E
                                                                            80
                                                                                AE 1064086105562F466086460
                                                                                                                      MOVAB
                                                                                               00012
00018
00010
                                       55
                                                  0000G
                                                                                                                                                                                                           1738
1739
                                                             CF 50440
                                                                                                                      ADDL3
                                                                                                                      MOVL
                                                                                                                      MOVAQ
                                                                                                                     SUBL 2
                                                                                                                                  #8, R4
                                                                                                                                  TOKENZLEN, RO
                                                                                                                      MOVZWL
                                                                                                                                                                                                           1744
                                                                                                                     BEQL
                                                  0000G
                                                                                                                      CMPL
                                                                                                                                  RO. LIBSGL_KEYSIZE
                                                                                                                                                                                                           1746
                                                            CF
                                                                                                                      BLEQU
                                                                                                                                                                                                           1747
                                                                                          DD
                                                                                                                      PUSHL
                                                                                              00032
00034
00036
00036
00035
00043
                                                                                                                                  R6
                                                                                          DDDD BBB BB DOD
                                                                                                                      PUSHL
                                                                                                                      PUSHL
                                                                                                                                  WLIBS MACNAMLNG
W4, LIBSSIGNAL
W^M<R6,SP>
                                                                  0000000G
                                                                                                                      PUSHL
                                                              67
                                                                                                                     CALLS
PUSHR
                                                                                                                                                                                                           1748
                                                                         4040
                                                                                                                                  #2 MAKE UPPER_CASE
                                                  FE49
                                                             CF
50
6E
                                                                                                                     CALLS
                                                                                                                                                                                                           1750
                                                                                                                      MOVL
                                                                                               00040
                                                                                                                                  TOKENZLEN, ENDNAME, #0, (R4), 1(RO)
                                       00
                                                                                                                      CMPC5
                                                                            01
```

LIB_INPUTMAC	C 11 16-Sep-1984 01:56:41 14-Sep-1984 12:38:04	VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]INPUTMAC.B32;1	Page 30
	15 13 00053 BEQL 2\$ 04 A4 D6 00055 INCL 4(R4 30 BB 00058 PUSHR #^M4 56 DD 0005A PUSHL R6		1752 1753 1754 1758
Routine Size: 110 bytes,	Routine Base: \$CODE\$ + 0659		
712 1760 1 713 1761 1 END 714 1762 0 ELUI	DM		
	.EXTRN LIBS	SSI GNAL	
Name	Bytes Attributes		
SOWNS SPLITS SCODES	216 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, 76 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, 1735 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)	
	Library Statistics		
File	Total Loaded Percent Mapped	Processing Time	
_\$255\$DUA28:[SYSLIB]STAR	ET.L32;1 9776 26 0 581	00:01.0	
	COMMAND QUALIFIERS		
BLISS/CHECK=(FIELD.	NITIAL, OPTIMIZE)/LIS=LIS\$: INPUTMAC/OBJ=OBJ\$: INPUTMAC MSRC	:: INPUTMAC/UPDATE = (ENH\$: INPUTMAC)	
: Size: 1735 code + : Run Time: 00:36.9 : Elapsed Time: 01:07.9 : Lines/CPU Min: 2863 : Lexemes/CPU-Min: 30580 : Memory Used: 314 pages	292 data bytes		

L

D 11 16-Sep-1984 01:56:41 VAX-11 BLiss-32 V4.0-742

: Compilation Complete

LIB_INPUTMAC

0201 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

